



DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY
AFFAIRS (PERA)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/pera

Hartman Windows and Doors, LLC
531 Southern Blvd.
West Palm Beach, FL 33405

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County PERA - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. PERA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "Direct Set" Wood Fixed Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. **04-HWD-0003**, titled "Direct Set Window – Large Missile Impact Resistant", sheets 1 through 6 of 6, dated 11/22/04, with last revision dated 01/25/12, prepared by Engineering Express, Inc., signed and sealed by Frank L. Bennardo, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **revises** NOA # **10-1012.08** and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Manuel Perez, P.E.**



MP
5/24/12

NOA No. 12-0320.19
Expiration Date: October 13, 2015
Approval Date: May 31, 2012
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS


1. Manufacturer's die drawings and sections.
2. Drawing No. **04-HWD-0003**, titled "Direct Set Window – Large Missile Impact Resistant", sheets 1 through 6, of 6, dated 11/22/04, with last revision dated 01/25/12, prepared by Engineering Express, signed and sealed by Frank L. Bennardo, P.E.

B. TESTS

1. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of two direct set wood fixed windows, one half round and one eyebrow shape, O configuration each, prepared by Hurricane Test Laboratory, LLC, Test Report No. **HTL-0137-0101-04**, dated 12/30/03, signed and sealed by Vinu J. Abraham, P.E.
(Submitted under previous NOA#04-1129.04)
2. Test reports on: 1) Large Missile Impact Test per FBC, TAS 201-94
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of a wood fixed window, O configuration, prepared by Hurricane Test Laboratory, LLC, Test Report No. **HTL-0137-0217-02**, dated 9/12/01 and 2/21/02, signed and sealed by Vinu J. Abraham, P.E.
(Submitted under previous NOA#04-1129.04)
3. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
along with marked-up drawings and installation diagram of a wood fixed window, O configuration, prepared by Hurricane Test Laboratory, LLC, Test Report No. **HTL-0137-0911-01**, dated 9/12/01, and 2/21/02, signed a sealed by Vinu J. Abraham, P.E.
(Submitted under previous NOA#04-1129.04)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis complying with FBC-2004, dated Nov. 22, 2004, revised on June 16, 2005, prepared by Frank L. Bennardo, P.E., Inc., signed and sealed by Frank L. Bennardo, P.E.
(Submitted under previous NOA#10-1012.08)
2. Glazing complies with ASTM E1300-04


Manuel Perez, P.E.
Product Control Examiner
NOA No. 12-0320.19
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Hartman Windows and Doors, LLC

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D. QUALITY ASSURANCE

1. Miami-Dade Department of Permitting, Environment, and Regulatory Affairs (PERA)

E. MATERIAL CERTIFICATIONS

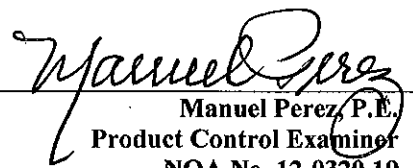
1. Notice of Acceptance No. **11-0624.02** issued to **E.I. DuPont DeNemours & Co., Inc.** for their "**DuPont SentryGlas® Interlayer**" dated 08/25/11, expiring on 01/14/17.
2. Notice of Acceptance No. **11-0325.05** issued to Solutia, Inc. for their "**Saflex and Vanceva clear and color interlayers**" dated 05/05/11, expiring on 05/21/16
3. Notice of Acceptance No. **07-1116.11** issued to **Saf-Glas, LLC** for their "**SAF-GLAS Polycarbonate Laminate**", dated 12/27/07, expiring on 12/16/12.

F. STATEMENTS

1. Statement letter of conformance, complying with FBC-2010, dated March 15, 2012, signed and sealed by Frank L. Bennardo, P.E.
2. Statement letter of no financial interest, issued by Al-Farooq Corporation, dated March 15, 2012, signed and sealed by Frank L. Bennardo, P.E.
3. Laboratory compliance letter for Test Reports No. **HTL- 0137-0911-01, HTL-0137-0217-02, and HTL-0137-0101-04**, issued by Hurricane Test Laboratory, LLC, dated 05/24/04, signed and sealed by Vinu J. Abraham, P.E.
(Submitted under previous NOA#04-1129.04)

G. OTHER

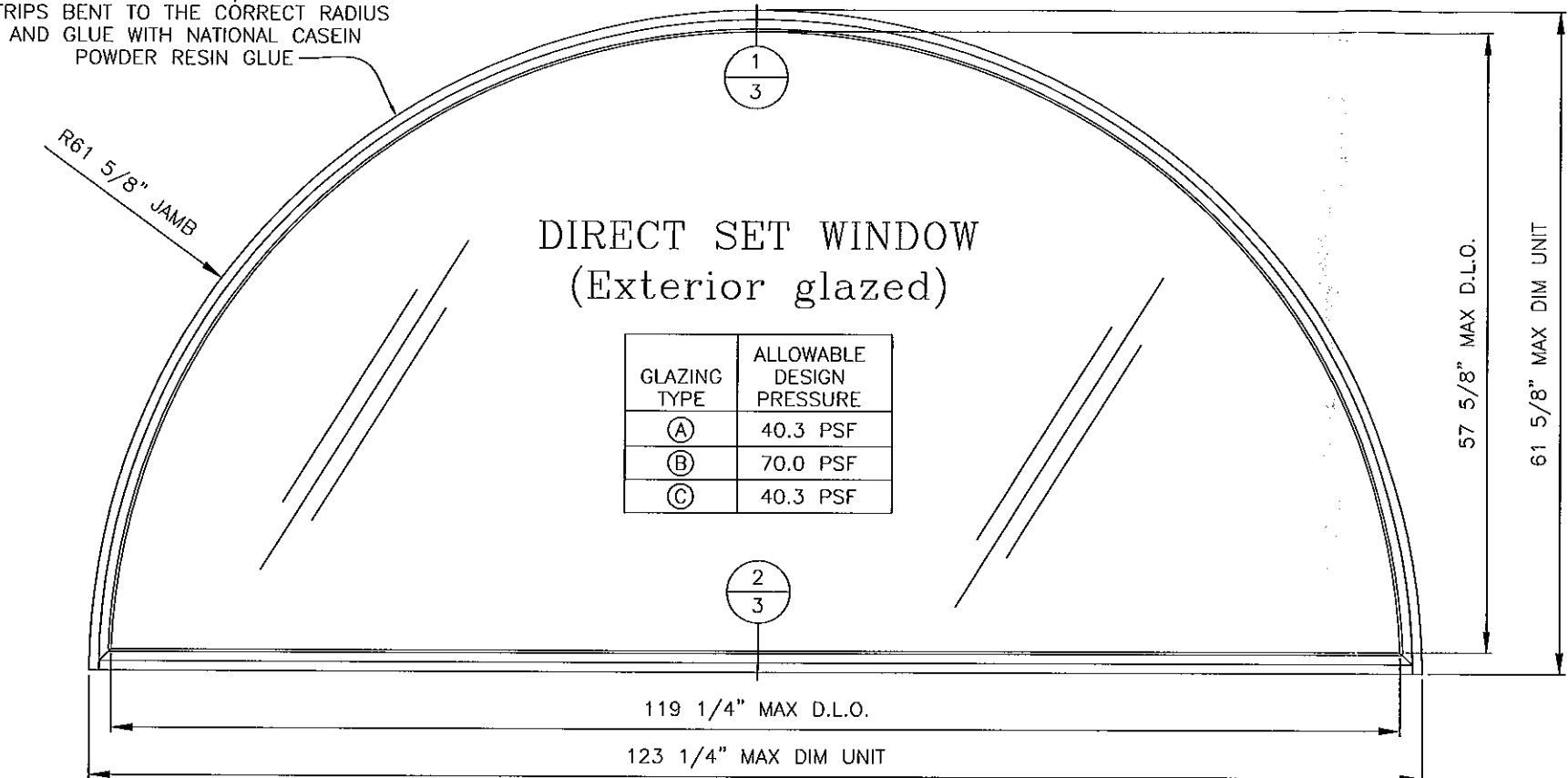
1. Notice of Acceptance No. **10-1012.08**, issued to Hartman Windows & Doors, LLC for their "Direct Set" Wood Fixed Window – L.M.I., approved on 12/23/10 and expiring on 10/13/15.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 12-0320.19
Expiration Date: October 13, 2015
Approval Date: May 31, 2012

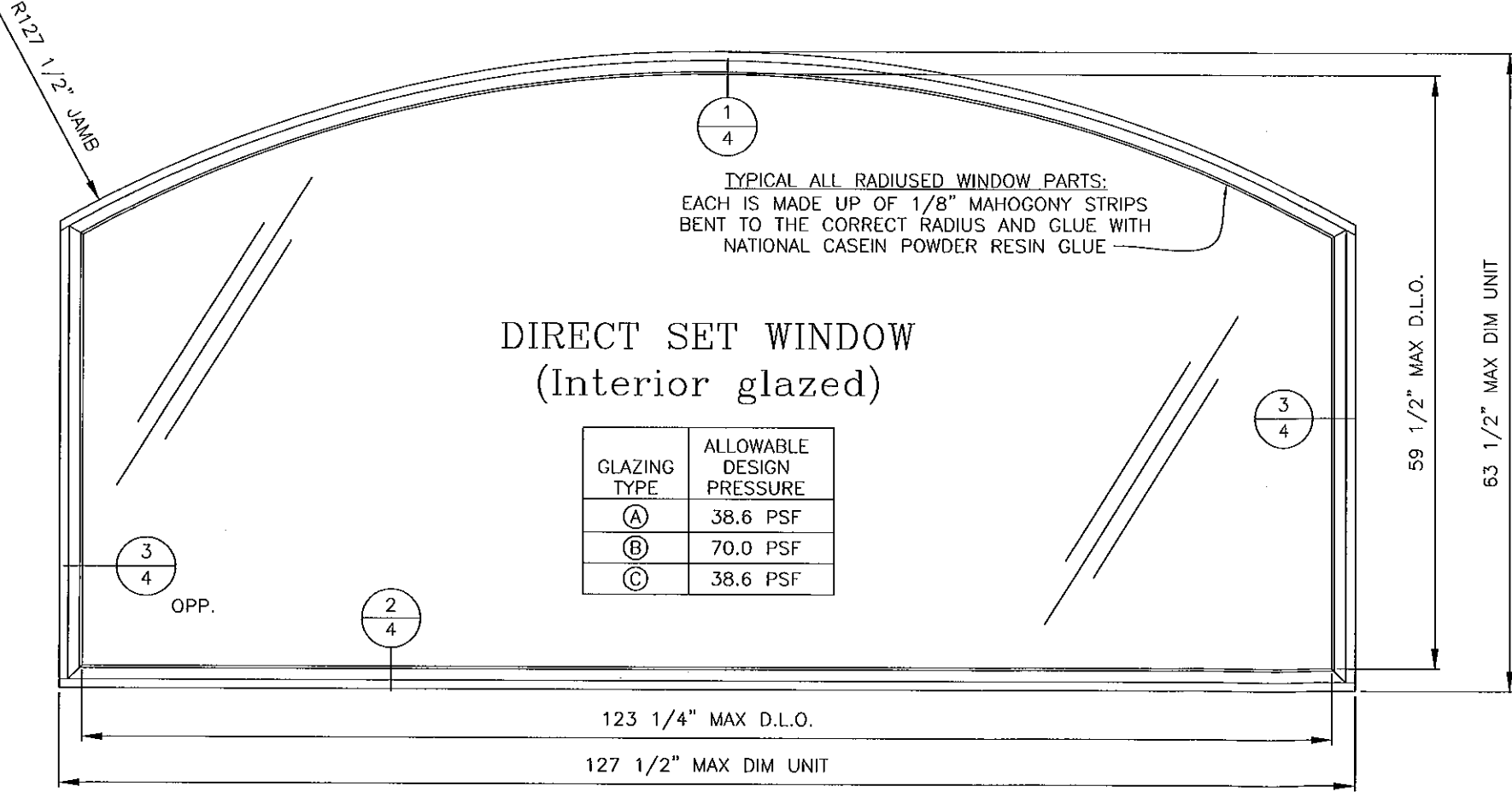
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DIRECT SET WINDOW

TYPICAL ALL RADIUS WINDOW PARTS:
EACH IS MADE UP OF 1/8" MAHOGONY STRIPS BENT TO THE CORRECT RADIUS AND GLUE WITH NATIONAL CASEIN POWDER RESIN GLUE



GLAZING TYPE	ALLOWABLE DESIGN PRESSURE
(A)	40.3 PSF
(B)	70.0 PSF
(C)	40.3 PSF



GLAZING TYPE	ALLOWABLE DESIGN PRESSURE
(A)	38.6 PSF
(B)	70.0 PSF
(C)	38.6 PSF

GENERAL NOTES

1. THE SYSTEM DESCRIBED HEREIN HAS BEEN DESIGNED AND TESTED IN ACCORDANCE WITH THE 2010 FLORIDA BUILDING CODE, FOR USE WITHIN THE HIGH VELOCITY HURRICANE ZONE, PER TAS 201 / 202 / 203 & ASTM E1300-98 STANDARDS.
2. NO 33-1/3% INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS SYSTEM. WIND LOAD DURATION FACTOR Cd=1.6 HAS BEEN USED FOR WOOD ANCHOR DESIGN.
3. POSITIVE AND NEGATIVE DESIGN PRESSURES CALCULATED FOR USE WITH THIS SYSTEM SHALL BE DETERMINED PER SEPARATE ENGINEERING IN ACCORDANCE WITH THE GOVERNING CODE. PRESSURE REQUIREMENTS AS DETERMINED IN ACCORDANCE WITH ASCE 7-10 AND CHAPTER 1609 OF THE 2010 FLORIDA BUILDING CODE SHALL BE LESS THAN OR EQUAL TO THE POSITIVE OR NEGATIVE DESIGN PRESSURE CAPACITY VALUES LISTED HEREIN FOR ANY ASSEMBLY AS SHOWN.
4. DESIGN PRESSURES NOTED HEREIN ARE BASED ON MAXIMUM TESTED PRESSURES DIVIDED BY A 1.5 SAFETY FACTOR.
5. MULTIPLE UNITS MUST BE INSTALLED USING MIAMI-DADE COUNTY PERMITTING, ENVIRONMENT AND REGULATORY AFFAIRS (PERA) APPROVED STRUCTURAL MULLIONS.
6. THE SYSTEM DETAILED HEREIN IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE. FOR SITE CONDITIONS DIFFERENT FROM THE CONDITIONS DETAILED HEREIN, A LICENSED ENGINEER OR REGISTERED ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE IN CONJUNCTION WITH THIS DOCUMENT.
7. PERMIT HOLDER SHALL VERIFY THE ADEQUACY OF THE EXISTING STRUCTURE TO WITHSTAND SUPERIMPOSED LOADS. WOOD BUCKS (BY OTHERS) SHALL BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE EXISTING STRUCTURE.
8. ALL FRAMING MEMBERS SHALL BE MAHOGANY WOOD HAVING MINIMUM SPECIFIC GRAVITY G=0.54 AND MIN DOWEL BEARING STRENGTH Fe=5450psi.
9. UNITS GLAZED WITH 7/16" LAMINATED GLASS ARE LARGE MISSILE IMPACT RESISTANT AND DO NOT REQUIRE IMPACT RESISTANT SHUTTERS.
10. EXTERIOR SEAM OF FRAME CORNERS SHALL BE SEALED WITH SILICONE.
11. ALL DIMENSIONAL LUMBER COMING INTO CONTACT WITH CONCRETE OR MASONRY MUST BE PRESSURE TREATED OR PROTECTED WITH ROOFING FELT PAPER AT THE CONTACT AREA AS PRESCRIBED IN THE 2007 FLORIDA BUILDING CODE, SECTION 2326.2.

GLAZING OPTIONS:

- (A) 7/16" "Sentry Glass Plus" by E.I. Dupont (NOA #11-0624.02):
- 3/16" ANNEALED GLASS
 - 0.090" DuPont SENTRYGLASS PLUS INTERLAYER
 - 3/16" ANNEALED GLASS
- (B) 7/16" "SAFLEX" by Solutio (NOA #11-0325.05):
- 3/16" HEAT STRENGTHENED GLASS
 - 0.090" SAFLEX PVB INTERLAYER
 - 3/16" HEAT STRENGTHENED GLASS
- (C) 7/16" "SAF-GLAS" by Saf-Glas, LLC (NOA #07-1116.11):
- 3/16" ANNEALED GLASS
 - 0.015" URETHANE ADHESIVE
 - 0.070" POLYCARBONATE "S.I.G" INTERLAYER
 - 0.015" URETHANE ADHESIVE
 - 3/16" ANNEALED GLASS

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 12-0320.19
Expiration Date Oct. 13, 2015
By *Manuel Perez*
Miami Dade Product Control

FRANK L. BENNARDI, P.E.
PROFESSIONAL ENGINEER
01/15/2012
1046549

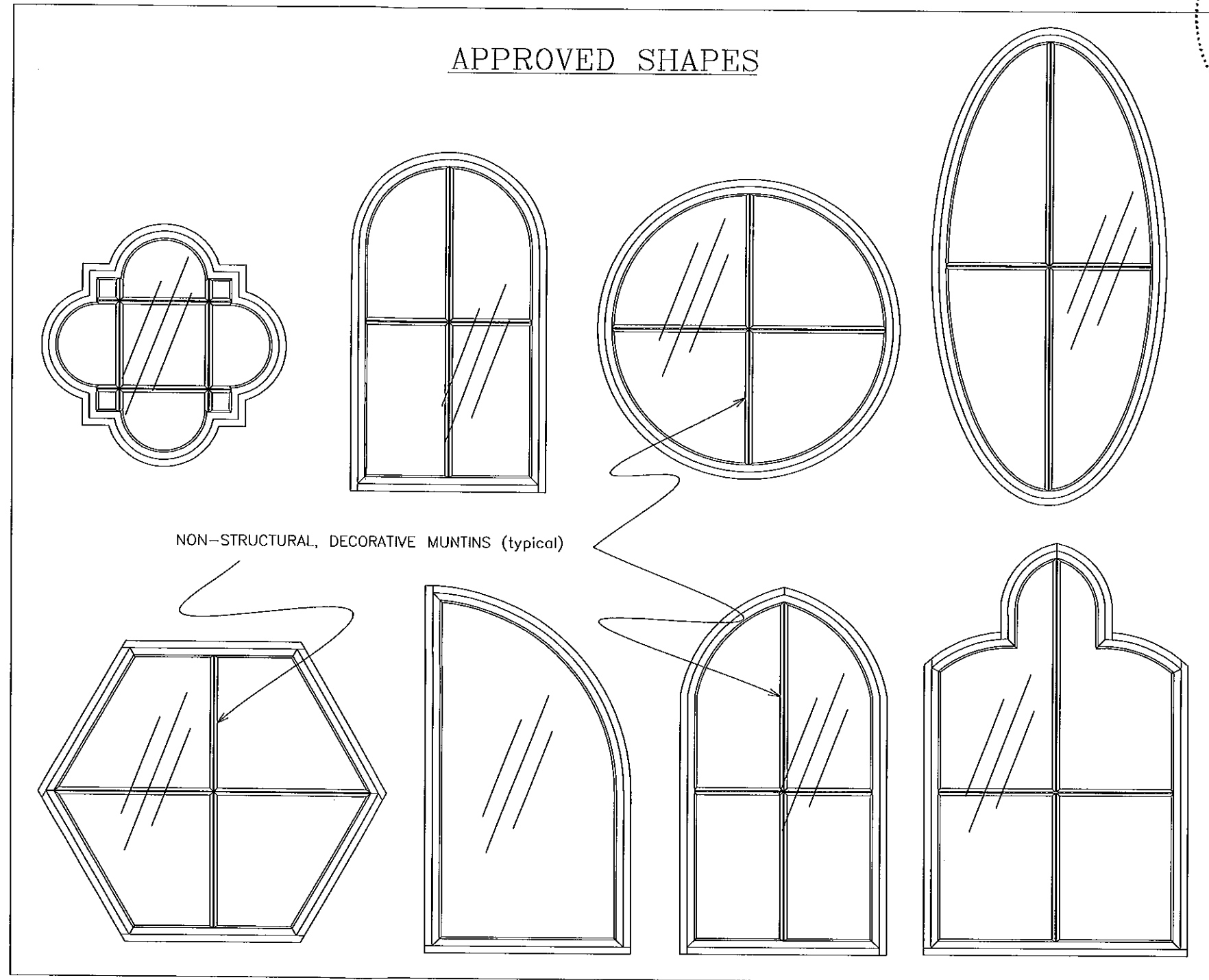
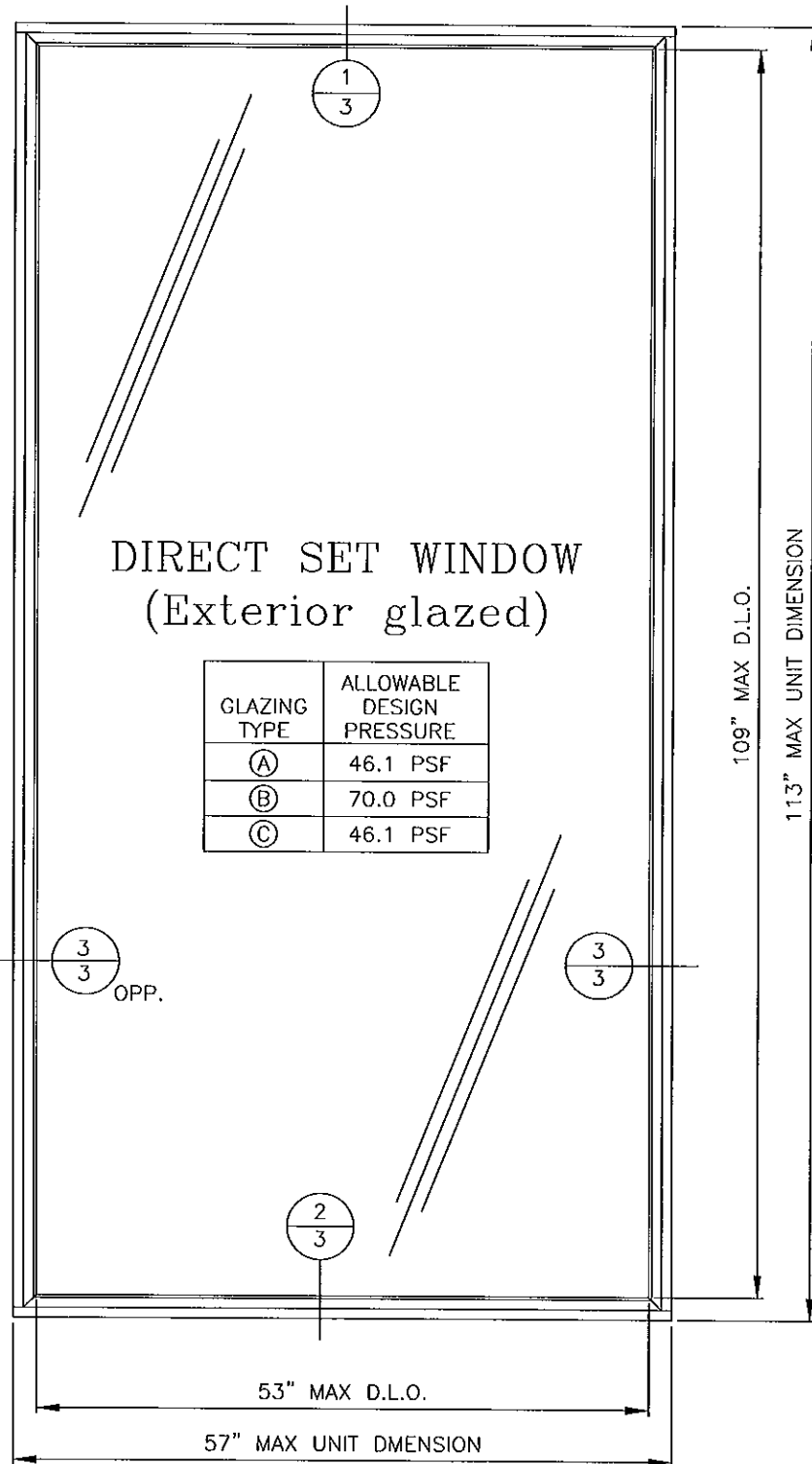
STATE OF
FLORIDA
ENGINEERING
EXPRESS
160 SW 12th Avenue, #106
DEERFIELD BEACH, FL 33442
PH: (954) 354-0660 FAX: (954) 354-0443
WWW.ENGEXP.COM
CERT. OF AUTH. #9885
A FRANK L. BENNARDI, P.E., INC. INNOVATION

HARTMAN WINDOWS
& DOORS, LLC
531 SOUTHERN BLVD - WEST PALM BEACH, FL 33405
PHONE: (954) 722-8707 FAX: (954) 783-0288

DIRECT SET WINDOW
LARGE MISSILE IMPACT RESISTANT

REMARKS	DRWN	CHKD	DATE
INITIAL ISSUE	CL	FLB	11/22/04
2004 FBC	CL	FLB	08/16/05
2007 FBC	AML	CL	12/17/08
2010 FBC	KL	FLB	01/25/12

04-HWD-0003
SCALE: 05
PAGE DESCRIPTION:
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SHAPED UNIT NOTES:

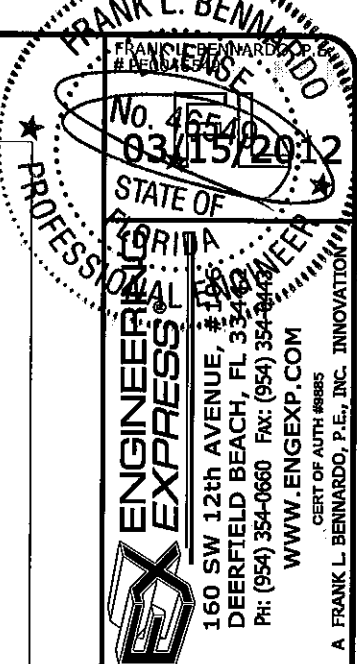
- 1) UNITS OF ANY SHAPE ARE ALLOWED PROVIDED CONSTRUCTION, GLAZING, & ANCHORAGE ARE PER DETAILS SHOWN HEREIN.
- 2) ALL SHAPED UNITS (OTHER THAN THOSE SHOWN ON SHEET 1) SHALL FIT WITHIN THE RECTANGULAR DIMENSIONS SHOWN ABOVE.
- 3) ALL RADIUS WINDOW PARTS ARE MADE UP OF 1/8" MAHOGONY STRIPS BENT TO THE CORRECT RADIUS AND GLUE WITH NATIONAL CASEIN POWDER RESIN GLUE

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 12-0320.19
Expiration Date 02.13.2015
By *Manuel Jara*
Miami Dade Product Control

HARTMAN WINDOWS & DOORS, LLC
531 SOUTHERN BLVD - WEST PALM BEACH, FL 33405
PHONE: (954) 722-8707 FAX: (954) 783-0288
DIRECT SET WINDOW
LARGE MISSILE IMPACT RESISTANT

REMARKS	DRWN	CHKD	DATE
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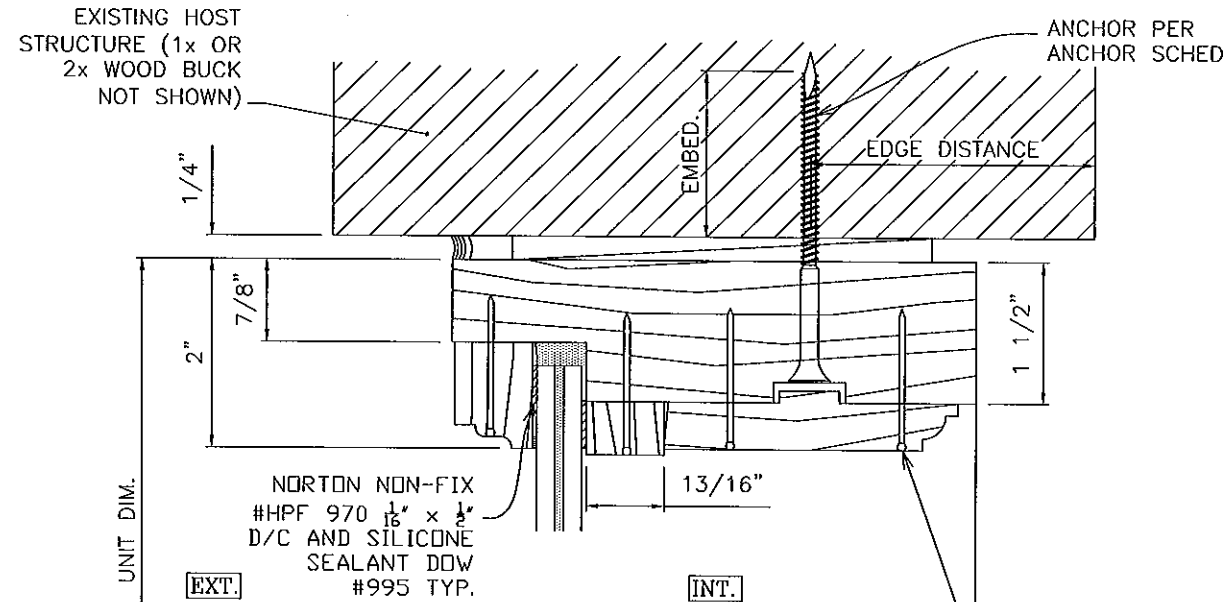
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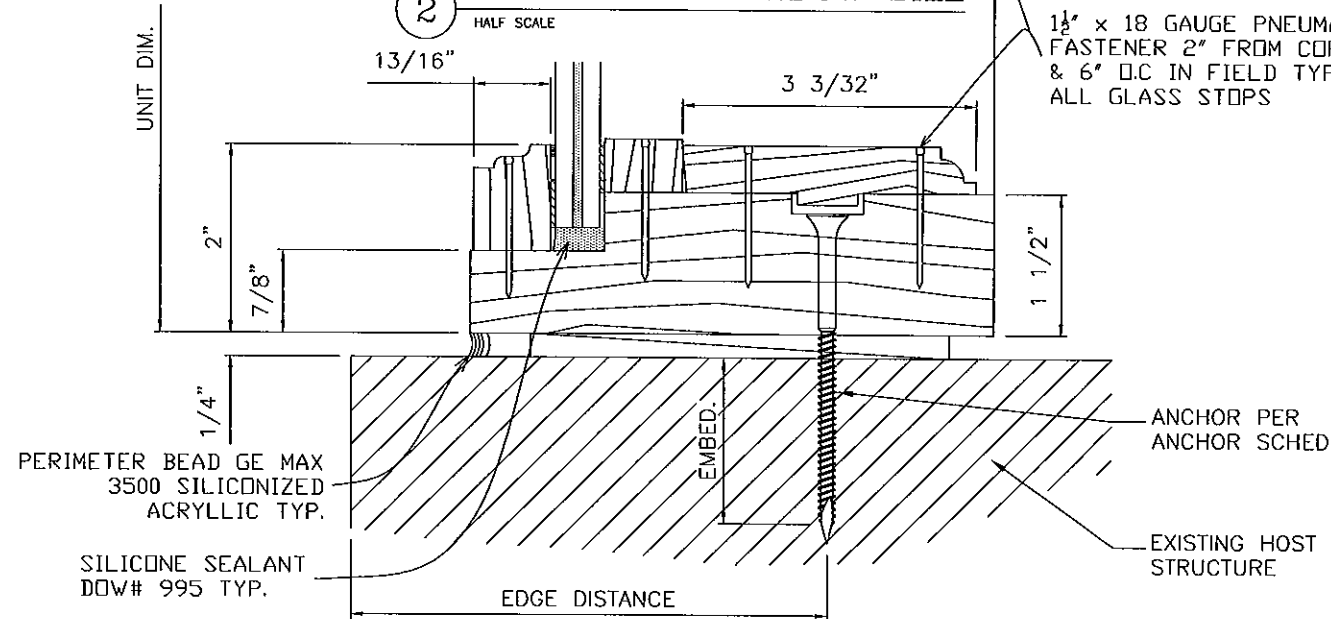
1 DIRECT SET WINDOW HEAD

HALF SCALE



2 DIRECT SET WINDOW SILL

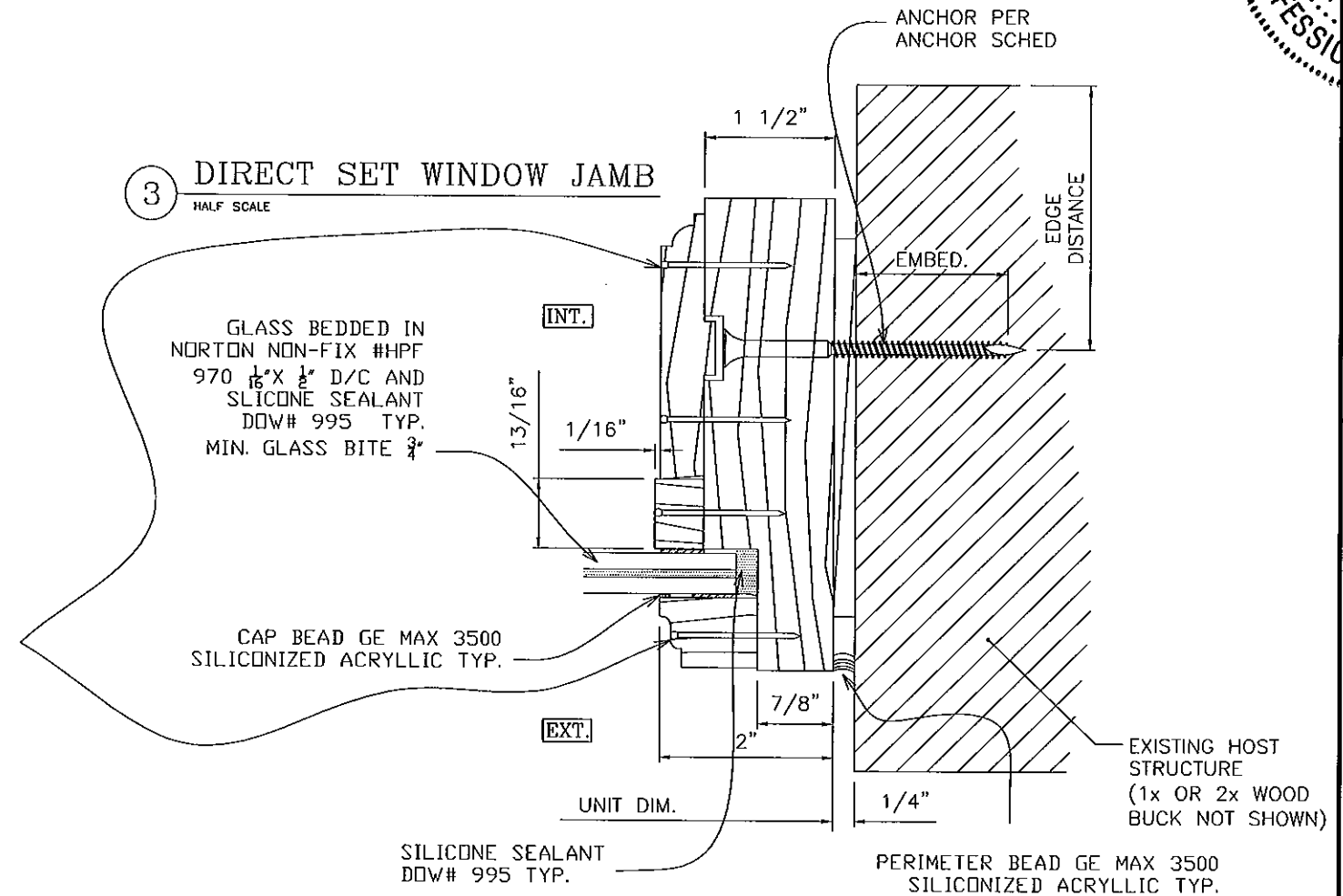
HALF SCALE



EXTERIOR GLAZED DETAILS

3 DIRECT SET WINDOW JAMB

HALF SCALE



ANCHOR SCHEDULE:

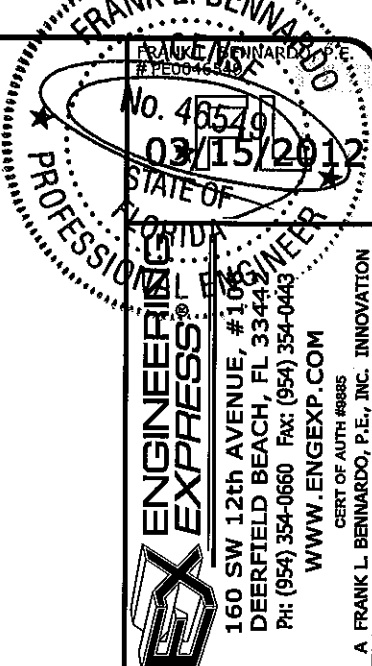
TO CONCRETE OR HOLLOW BLOCK
(WITH OR WITHOUT 1x WOOD BUCK)
1/4" ITW TAPCON WITH 1-1/4" MIN EMBED
& 2-1/2" MIN EDGE DISTANCE

TO 2x (MIN) WOOD BUCK OR WOOD STRUCTURE
#12 WOOD SCREW OR SMS WITH 1-1/2"
MIN EMBED & 1" MIN EDGE DISTANCE

ANCHOR NOTES:

1. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS.
2. TAPCONS SHALL BE MANUFACTURED BY ITW.
3. ALL UNITS SHALL BE ANCHORED TO EXISTING HOST STRUCTURE WITH ANCHORS AT 3" FROM EACH CORNER & 8" O.C. AROUND ENTIRE PERIMETER. REFER TO ANCHOR SCHEDULE FOR ALLOWABLE ANCHORS & ANCHORING CONDITIONS.
4. ALL SHEET METAL AND/OR WOOD SCREWS SHALL BE SAE GRADE 5 STEEL OR EQUIVALENT.
5. ENSURE MINIMUM 2-1/2" EDGE DISTANCE FOR ALL ANCHORS TO CONCRETE & TO HOLLOW BLOCK.
6. WHERE EXISTING STRUCTURE IS WOOD FRAMING, EXISTING CONDITIONS MAY VARY. FIELD VERIFY THAT FASTENERS ARE INTO ADEQUATE WOOD FRAMING MEMBERS, NOT INTO PLYWOOD. 1" EDGE DISTANCE IS ACCEPTABLE FOR ANCHORS TO WOOD FRAMING.
7. WOOD HOST STRUCTURE SHALL BE "SOUTHERN PINE" G=0.55 OR GREATER DENSITY.
8. MINIMUM EMBEDMENT SHALL BE AS NOTED IN ANCHOR SCHEDULE. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDES STUCCO, FOAM, BRICK, AND OTHER WALL FINISHES.
9. WOOD BUCKS (BY OTHERS) SHALL BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE EXISTING STRUCTURE.

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as complying with the Florida
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Expiration Date Oct 13, 2015
By Manuel Perez
Miami Dade Product Control

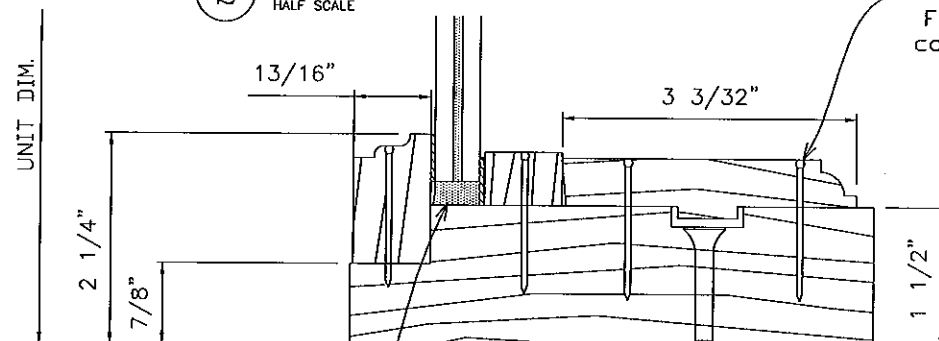
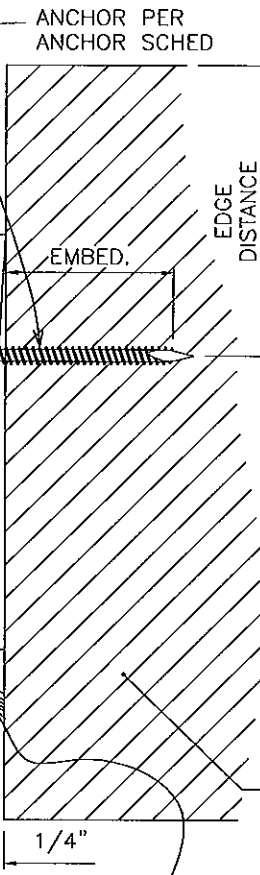
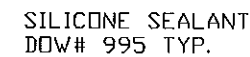
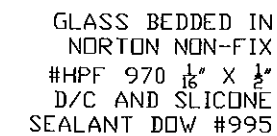
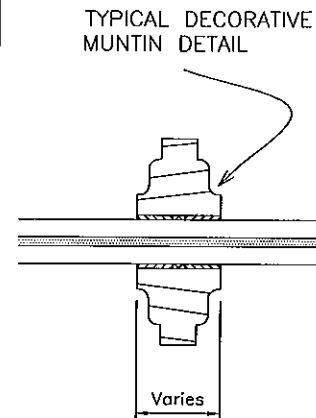


HARTMAN WINDOWS & DOORS, LLC
531 SOUTHERN BLVD - WEST PALM BEACH, FL 33405
PHONE: (954) 722-8707 FAX: (954) 783-0288
DIRECT SET WINDOW
LARGE MISSILE IMPACT RESISTANT

REMARKS	DATE	DRWN	CHKD
INITIAL ISSUE	11/22/04	CL	FLB
2004 FBC	06/18/05	CL	FLB
2007 FBC	12/17/08	AML	CL
2010 FBC	01/25/12	KL	CL

04-HWD-0003
SCALE: 1/8" = 1'-0"
PAGE DESCRIPTION:

1 DIRECT SET WINDOW HEAD
HALF SCALE



1/4"

PERIMETER BEAD GE
MAX 3500 SILICONIZED
ACRYLIC TYP.

SILICONE SEALANT
DOW# 995 TYP.

EDGE DISTANCE

EMBED.

ANCHOR PER
ANCHOR SCHED

EXISTING HOST
STRUCTURE

TO CONCRETE OR HOLLOW BLOCK
(WITH OR WITHOUT 1x WOOD BUCK)
1/4" ITW TAPCON WITH 1-1/4" MIN EMBED
& 2-1/2" MIN EDGE DISTANCE

TO 2x (MIN) WOOD BUCK OR WOOD STRUCTURE
#12 WOOD SCREW OR SMS WITH 1-1/2"
MIN EMBED & 1" MIN EDGE DISTANCE

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as complying with the Florida
Building Code
Acceptance No 12-0320-19
Expiration Date OCT. 13, 2015
By Mamuel Fize
Miami Dade Product Control

**HARTMAN WINDOWS
& DOORS, LLC**
NORTHERN BLVD - WEST PALM BEACH, FL 33411
TEL: (954) 722-8707 FAX: (954) 783-1111

**HARTMAN WINDOWS
& DOORS, LLC**
5331 SOUTHERN BLVD - WEST PALM BEACH, FL 33405
PHONE: (954) 722-8707 FAX: (954) 783-0288

REMARKS	DRWN	CHKD	DATE
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2007 FBC	ANIL	CL	12/17/08
2010 FBC	KL	FLB	01/25/12
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04-HWD-0003
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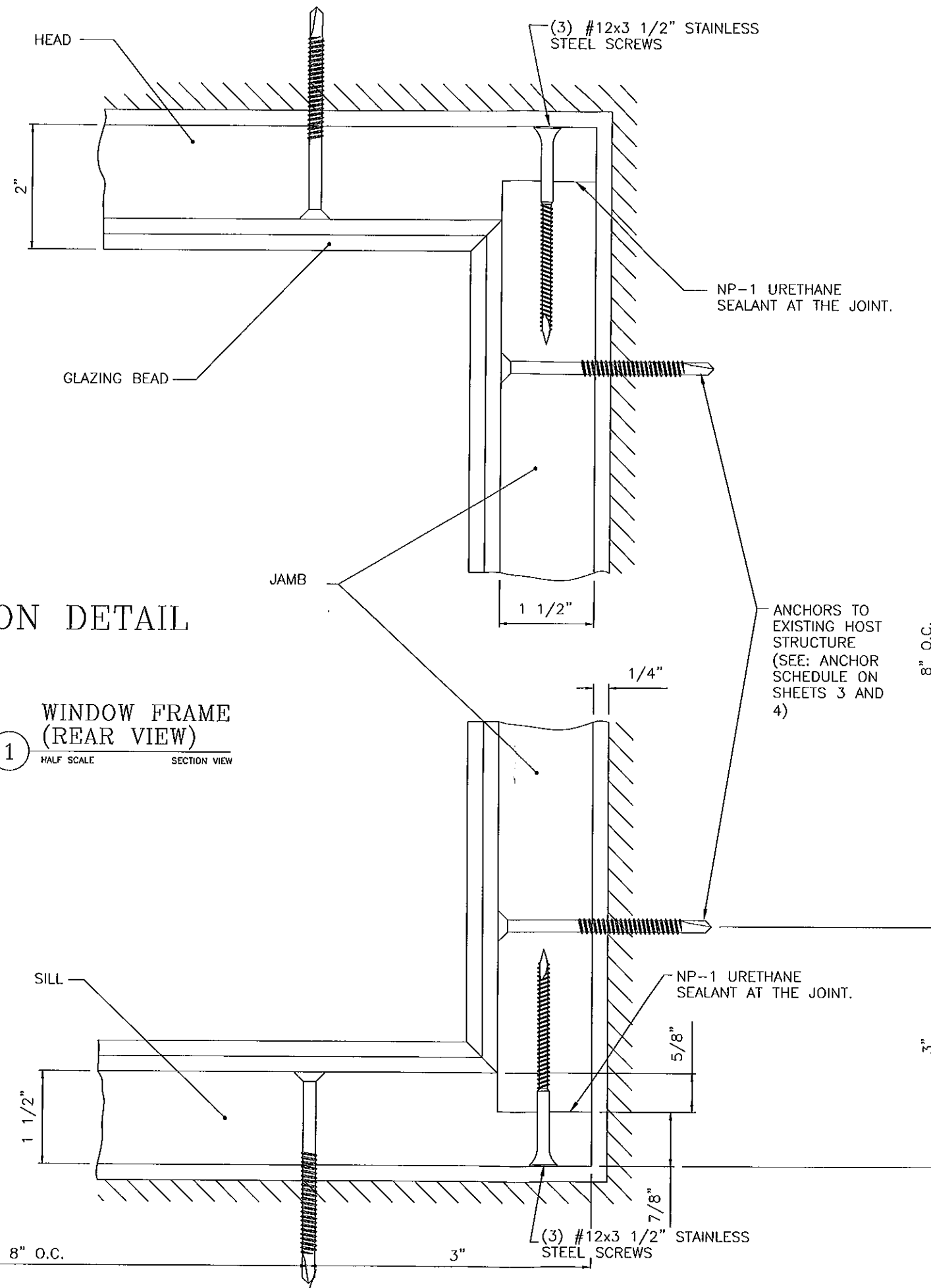
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CORNER CONSTRUCTION DETAIL

1 WINDOW FRAME
(REAR VIEW)
HALF SCALE SECTION VIEW



PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 12-0320.19
Expiration Date Oct. 13, 2015
By *Maurice Perez*
Miami Dade Product Control

FRANK L. BENNARD, P.E.
PROFESSIONAL ENGINEER
03/15/2012
46549

STATE OF FLORIDA
ENGINEERING
EXPRESS
160 SW 12th Avenue, #105
DEERFIELD BEACH, FL 33442
Ph: (954) 354-0660 Fax: (954) 354-8443
WWW.ENGEXP.COM
CERT OF AUTH #9885
A FRANK L. BENNARD, P.E., INC. INNOVATION

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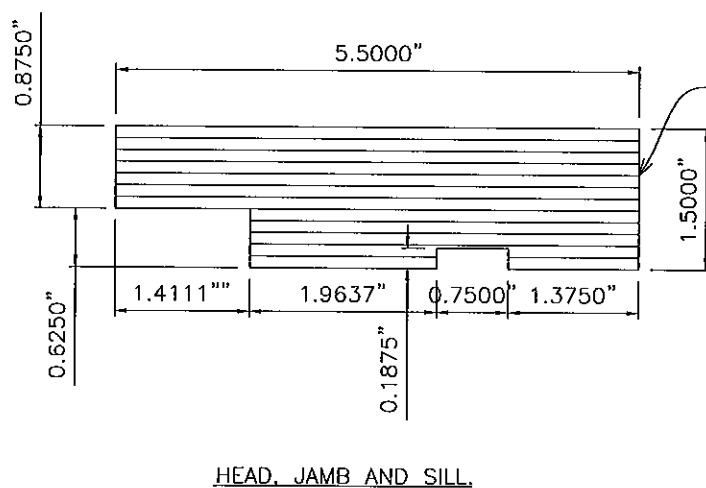
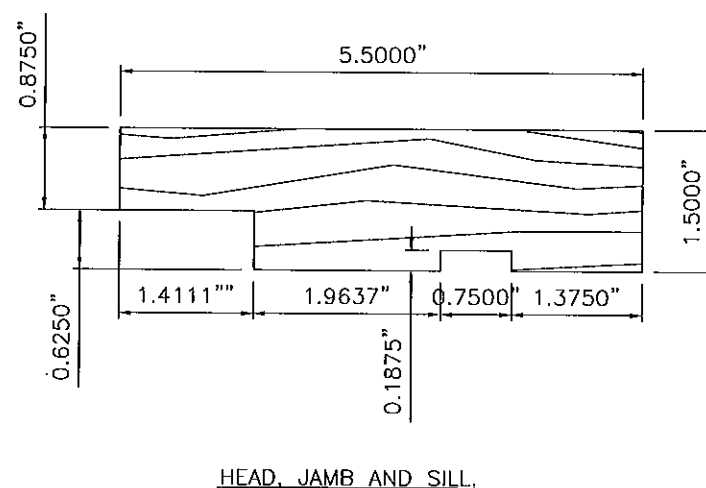
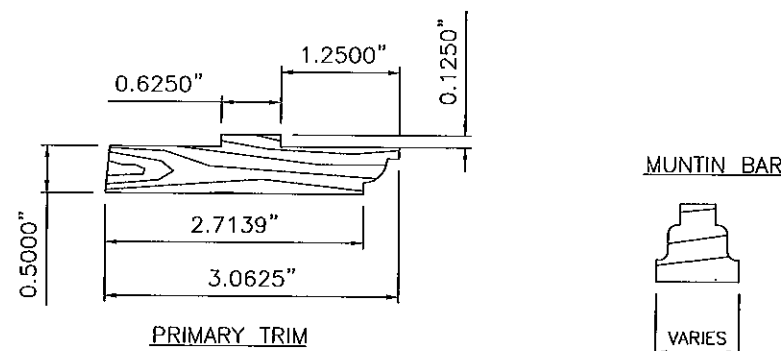
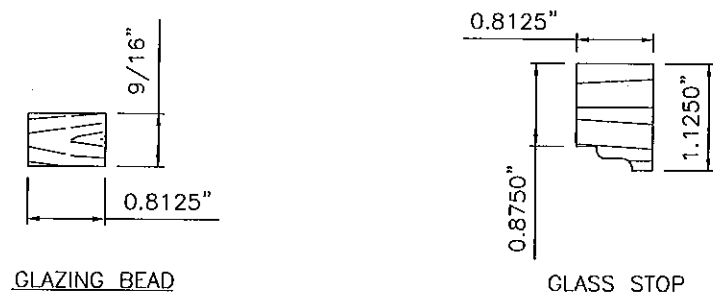
DIRECT SET WINDOW
LARGE MISSILE IMPACT RESISTANT

REMARKS	DRWN	CHKD	DATE
INITIAL ISSUE	CL	FLB	11/22/04
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04-HWD-0003
SCALE: 105
PAGE DESCRIPTION:

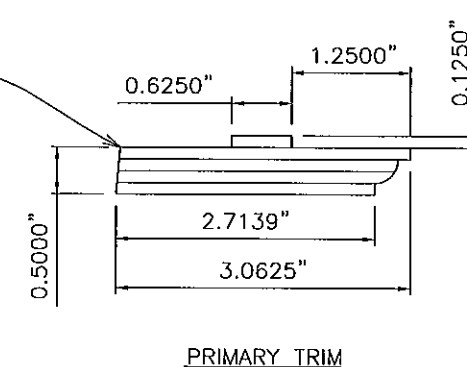
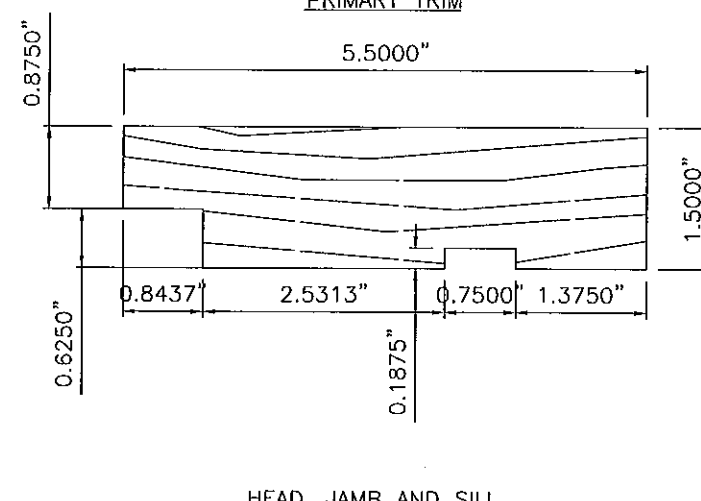
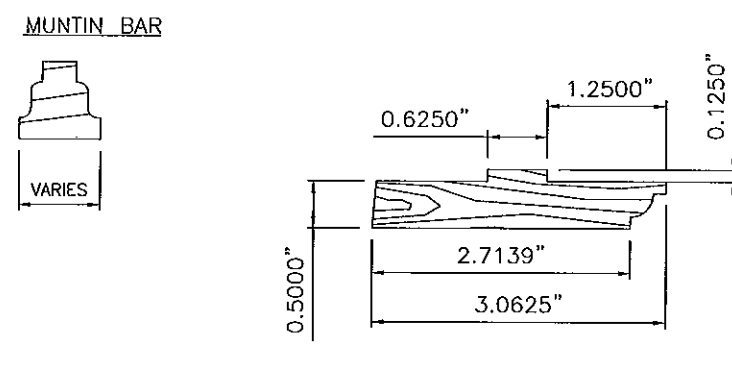
5

EXTERIOR GLAZED



Typical all radiused window parts:
Each is made up of 1/8" mahogany strips bent to the correct radius and glue with National Casein powder resin glue

INTERIOR GLAZED



FRANK L. BENNARD, P.E.
LICENSED PROFESSIONAL ENGINEER
03/15/2015
NO. 46549

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160 SW 12th Avenue, Suite 1906
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531 SOUTHERN BLVD - WEST PALM BEACH, FL 33405
PHONE: (954) 722-8707 FAX: (954) 783-0288

DIRECT SET WINDOW
LARGE MISSILE IMPACT RESISTANT

REMARKS	DRWN	CHKD	DATE
INITIAL ISSUE	CL	FLB	11/22/04
2004 FBC	CL	FLB	06/16/05
2007 FBC	AML	CL	12/17/08
2010 FBC	KL	FLB	01/25/12

04-HWD-0003
SCALE: 1/8" = 1'-0"
PAGE DESCRIPTION:

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 12-0320.19
Expiration Date Oct. 13, 2015
By *Maurice*
Miami Dade Product Control